

## University of Groningen

### Right ventricular adaptation

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PROPOSITIONS  
belonging to the dissertation entitled

RIGHT VENTRICULAR ADAPTATION  
in conditions of increased pressure load

1. Clinical right ventricular failure is associated with diastolic dysfunction, rather than systolic dysfunction. *This thesis*
2. Right ventricular pressure overload induces glucose uptake and glycolysis, and may serve as initial adaptive mechanism to increased pressure load conditions. *This thesis*
3. Effect of pressure overload on right ventricular oxidative metabolism differs between various experimental models. *This thesis*
4. Decrease of right ventricular tetralinoleoyl-cardiolipin, a mitochondrial lipid, occurs before deterioration of mitochondrial respiratory capacity in the pressure overloaded right ventricle. *This thesis*
5. Right ventricular pressure load increases biventricular microRNA 199b expression, which is associated with decreased cardiac function. *This thesis*
6. In contrast to the left ventricle, Hand2 attenuates deterioration of ventricular function upon pressure overload in the right ventricle. *This thesis*
7. Pressure load of the right ventricle also affects the left ventricle as shown by molecular pathway changes in this part of the heart. *This thesis*
8. Multi-biomarker assessment in children exposed to abnormal right ventricular loading conditions enables characterization of RV remodelling in early stage of disease. *This thesis*
9. May your choices reflect your hopes, not your fears. *Nelson Mandela*
10. Appreciation is a wonderful thing: it makes what is excellent in others belong to us as well. *Voltaire*
11. It is not the strongest of the species that survives, nor the most intelligent. It is the one that is most adaptable to change. *Charles Darwin*